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# INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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A report on the Electric Meter Plant in Vilnius

The report includes information on location, size, security precautions, number of employees, production, workshops, and personalities.

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1. An electric meter factory (Zavod Elektroschotchikov) is situated at 8 or 10 Krupu Street in the Zarieche (formerly Zarzecze) quarter of Vilnius. The plant, which is subordinate to the Ministry of Electrical Industry (Ministerstvo Elektricheskoy Promyshlennosti) is of national importance since it produces electric meters for all union republics. Extending over an area 200 m x 500 m, the plant is closely guarded by a group of civilian watchmen responsible to the management, and admittance to the factory area is by permit only, obtained from the guard commander.

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2. The factory, which in 1954 employed nearly 4,000 workers, produces 5A and 10A one-phase meters for tensions of 220 V and 127 V. The production plan for 1954 stipulated an output of one million units, part of which were exported, mainly to China and [ ]
3. The factory includes the following workshops [ ]:
- a. Preparation of material
  - b. Armature winding shop, which has about 30 coil-winding machines, ~~also~~ manufactured by the plant after an American design. This shop also furnishes all wires required during the production process.
  - c. Punch press shop, which supplies all punched metal parts required for the production process. Its machinery includes three presses of 200 tons, two presses of 100 tons, and 30 presses of 20, 30, and 50 tons. This shop includes a special section for the repair of presses as well as a permanent representation of the technical inspection department.
  - d. Assembly department, which operates by the conveyor belt system, with a maximal division of the working process.

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- e. Meter regulation shop (Tsekh Regulirovki Elektroshchotchikov), which has about 100 stands (Stendi) for regulation by means of stroboscopes. The stands are produced by the plant itself on the basis of a British model. The meters are brought to the stands from the assembly department on two conveyor belts, and on the way missing or damaged parts are fitted. Each stand can regulate 150 meters at a time.
- f. Precision mechanics shop, which produces all parts required for the manufacture of the meters. The shop has equipment of Swiss manufacture and can achieve an accuracy of up to five microns. The machinery consists of ten "Safag" milling cutters, 20 lathes, 20 turret lathes and five presses of four to five tons. This shop also assembles the meter mechanism (Sborka Schotnovo Mekhanizma) by the conveyor belt system.
- g. Galvanizing shop, which is comprised of ten baths of two cu.m. each, and a number of "bells" (metal balls) for plating screws and other small parts.
- h. Mechanical workshop for equipment repair, which is equipped with two planing machines, two polishing machines, two milling machines, four lathes, and a number of circular polishing machines.

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- i. Tool-making shop, which has the following equipment:
  - (1) Ten lathes (DIP-300, DIP-200 and 16/16 lathes) produced by an aircraft factory in Odessa.
  - (2) Two SIP milling machines (Kardinatno-Frezerniy Stanok)
  - (3) One cutting and polishing (?) machine.
  - (4) One "Til" planing machine of Austrian make.
  - (5) Two Austrian "Wanderer" milling machines.
  - (6) Five upright (vertical?) milling machines.
  - (7) Four to five shaping machines.
- j. Experimental workshop, which produces all pilot models designed by the construction department. It is equipped with one "Til" milling machine, one milling machine manufactured by an aircraft factory in Odessa, one "Skoda" lathe, and one horizontal milling machine.
- k. Plastic shop for the production of plastic parts, which is equipped with seven to eight hydraulic presses of Czech make, with capacities of 100-150 tons.
- l. Automatic machine tool shop, which produces all screws and other turned parts required for the production process. Its equipment includes five automatic "index" machines of

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German make, four British Lowe automatic machines, ten Skoda "index" automatic machines (Czech), and three Soviet-made screw-cutting machines.

- m. Foundry, which is equipped with four electric furnaces of 1. 5 KV and a capacity of 20 kgs each.
  - n. Electrical laboratory, which is equipped with oscillographs and differential coordinators (?), in addition to such standard instruments as voltmeters and ampermeters.
  - o. Mechanical laboratory, which is equipped as follows: four metallurgical microscopes, optimeters and minimeters, Johnson boards, a microscope with screen (?), an X-ray apparatus for metal testing, two Rockwell test instruments, and an instrument for qualitative testing of metal (?).
  - p. Chief technologist's department.
  - q. Constructor's department.
  - r. Technical inspection.
  - s. Packing department.
4. The plant is considered to operate on a high technical level and the quality of its output is rated as good. In addition to the internal technical control, all products are closely

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checked by representatives of the standards institute; rejects amount to about 20 percent. The plant is constantly expanding and increasing its output, and it is rumored that in due course it will be the only meter factory in the USSR. In 1950 another meter factory operating in Leningrad was purportedly closed down and its equipment transferred to the Vilnius enterprise.

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5. The following individuals are employed by the electric meter factory in Vilnius:

- a. Leonid Petrovich Makakski, head of the electrical laboratory, has been employed at the plant since 1949-1950; he previously worked at an electric meter factory in Metishchevo near Moscow, which closed down in that year.

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- b. Vasilii Petrovich Savelev, chief technologist, is a machine engineer from Kazan who has been working at the plant since 1950.

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